Anatomy & Physiology I Self Quiz Ch 5

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- 1. All of the following are part of the integumentary system EXCEPT the
 - A) epidermis
 - B) dermis
 - C) subcutaneous layer
 - D) hair and nails
 - E) sebaceous and sweat glands
- 2. The epidermis
 - A) is the deepest layer of the cutaneous membrane.
 - B) is composed of stratified squamous epithelium.
 - C) has four or five layers of cells.
 - D) is highly vascular.
 - E) contains adipocytes and collagen fibers.
- 3. Keratinocytes are the predominant cells in the:
 - A) epidermis.
 - B) papillary region of the dermis.
 - C) reticular region of the dermis.
 - D) subcutaneous layer.
 - E) All of the above are correct.
- 4. Arrange the layers of the epidermis in order from most superficial to deepest.
 - 1. stratum spinosum
 - 2. stratum granulosum
 - 3. stratum corneum
 - 4. stratum basale
 - 5. stratum lucidum
 - A) 4, 1, 2, 5, 3
 - B) 3, 5, 1, 2, 4
 - C) 4, 1, 5, 3, 2
 - D) 3, 5, 2, 1, 4
 - E) 4, 3, 2, 5, 1
- 5. Which layer of the epidermis consists of 25-30 layers of dead, flattened keratinocytes?
 - A) stratum corneum.
 - B) stratum lucidum.

- C) stratum granulosum. D) stratum spinosum. E) stratum basale.
- 6. Which of the following is present in thick skin but not in thin skin?
 - A) stratum germinativum
 - B) stratum lucidum
 - C) stratum corneum
 - D) stratum granulosum
 - E) dermal papillae
- 7. The average length of time for a cell to be produced by the stratum basale, rise to the surface, become keratinized, and slough off is about how long?
 - A) 24 to 48 hours
 - B) two weeks
 - C) one month
 - D) one year
 - E) Once cells are keratinized, they never slough off.
- 8. Psoriasis
 - A) is a rare skin cancer.
 - B) occurs when keratinocytes reproduce too quickly.
 - C) forms irregular, black tarry scabs on the skin.
 - D) usually occurs on the shoulders, hips and ankles.
 - E) is treated by stimulating cell division.
- 9. The reticular region of the dermis
 - A) is called the reticular region.
 - B) consists of primarily of adipose tissue.
 - C) contains collagen fibers and elastic fibers.
 - D) A and B are correct.
 - E) A and C are correct.
- 10. Fingerprints
 - A) appear during the 3rd and 4th week of fetal development.
 - B) are formed as the dermis conforms to the underlying subcutaneous layer.
 - C) are unique to each individual and maintain a constant pattern throughout life.
 - D) decrease friction between the skin and smooth surfaces.
 - E) are studied by a field of science called dermatology.

- 11. An individual born without the ability to make the enzyme tyrosinase has which of the following conditions?
 - A) vitiligo
 - B) albinism
 - C) jaundice
 - D) cyanosis
 - E) erythema

12. Tattooing

- A) is the coloring the skin by applying natural dyes to the epidermis.
 - B) inserts ink particles into the dermis.
 - C) inserts ink particles into the subcutaneous region.
 - D) can only be removed by cutting away the tattooed skin.
 - E) can be removed by repetitive washing with soap and water.
- 13. Body piercing
 - A) is the insertion of jewelry through an artificial opening.
 - B) may take up to a year for complete healing to occur.
 - C) may result in cartilage deformation or nerve damage.
 - D) may interfere with medical procedures.
 - E) All of the above are correct.
- 14. Which of the following is NOT considered an accessory structure of the skin?
 - A) hair
 - B) sweat glands
 - C) sebaceous glands
 - D) nails
 - E) Merkel's disc
- 15. Which of the following is true of hair growth?
 - A) Scalp hair grows for 2 to 6 months before resting for 3 years.
 - B) At any given time, 85% of the scalp hairs are resting.
 - C) Normal hair loss in the adult is around 100 hairs a day.
 - D) Hair growth and replacement cycles are unaffected by stress and diet.
 - E) Hair shafts contain living cells.

16. Sebum

- A) is a watery secretion used to cool the body.
 - B) is a waxy substance produced by glands in the ear canal.

- C) is produced by sebaceous glands that are, in most cases, attached to hair follicles.
- D) contains primarily carbohydrates and salts.
- E) promotes evaporation of water from the skin.

17. Acne

- A) is an inflammation of sebaceous glands.
 - B) is caused by viruses attacking the cells of the sebaceous glands.
 - C) is more commonly associated with the elderly.
 - D) is usually found in sebaceous glands inhibited by androgen hormones.
 - E) is never associated with permanent scarring of the epidermis.
- 18. Ceruminous glands
 - A) produce ear wax.
 - B) produce milk.
 - C) produce sweat.
 - D) produce sebum.
 - E) produce ear wax and sebum.
- 19. Which of the following is NOT a function of the skin?
 - A) regulates body temperature
 - B) participates in synthesis of vitamin A
 - C) serves as the first and foremost barrier to disease
 - D) excretes some waste products
 - E) house sensory receptors
- 20. How does skin contribute to regulation of body temperature?
 - A) releasing perspiration, which evaporates and carries away heat
 - B) altering blood flow to the dermis, which adjusts how much heat will radiate from the body
 - C) shivering, which produces heat
 - D) A and B are correct.
 - E) A, B, and C are correct.